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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,930	04/08/2004	Anthony Catalano	TAG-1 8748	
PRITZKAU PATENT GROUP, LLC 993 GAPTER ROAD BOULDER, CO 80303			EXAMINER	
			VO, TUYET THI	
			ART UNIT	PAPER NUMBER
			2821	
	•	•	MAIL DATE	DELIVERY MODE
			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/820,930	CATALANO, ANTHONY				
omce Action Guinnary	Examiner	Art Unit				
The MAILING DATE of this communication communication	Tuyet Vo	2821				
The MAILING DATE of this communication app Period for Reply	lears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 06 Fe	ebruary 2007.					
• • • • • • • • • • • • • • • • • • • •						
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>50,52,53,60,61 and 68</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>60 and 61</u> is/are allowed.						
6)⊠ Claim(s) <u>50,52,53 and 68</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	r					
10)☐ The drawing(s) filed on is/are: a)☐ acce		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) All b) Some * c) None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in Application No						
application from the International Bureau	· •	· · · · · · · · · · · · · · · · · · ·				
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ed.				
	•	•				
Attachment(s)						
1) D Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>2/06/2007</u> .	6) Other:					

DETAILED ACTION

Remarks

The applicant's amendment filed February 06, 2007 to amend the claims 50 and 60 and add claims 68 in responding to the Office Action made September 07, 2006. Accordingly, claims 50, 52, 53, 60, 61 and 68 are currently presented in the application. Applicant's arguments regarding to currently presented claims 50, 52, 53, 60, 61 and 68 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 50, 53 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chun (US Pat. 6,924,605) in view of Dubuc (US Pat. 6,981,784).

Regarding claims 50, 53, 57-61 and 63, 67 and 68, Chun discloses a LED flashlight device (Figs. 4-7) for illuminating an object by directing a beam of light (65) from the device onto the object, comprising:

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a housing (12) having a reflecting lens (60) arrangement supported therewith, the lens arrangement including light reflector surface segments which circumscribes a given area and which defines a forward extending central axis of illumination (Figs.1 and 4); and

an illumination assembly including a printed circuit board (45) having a front planar surface (A, marked by examiner) and a back planar surface (B, marked by examiner), wherein a side edge extending between said front and back surface considered as a thickness of the printed circuit board, a light emitting diode (65) on the front surface (A), a control circuitry (90, 100) connected to the light source (65) and printed on at least one of surface (col. 1, lines 54-63) of the printed circuit board (45) for connecting the light source LED (65) to a power source (55) the light source LED is disposed within the given area in a way it causes light out of a given area guide via means of reflection to a general direction of a forwardly extending central axis of illumination, wherein the illumination assembly includes another of LED light source (110). Chun further discloses the LED (65) having two free ends (94, 95) and opposite ends (94*, 95*), wherein the two free ends (94, 95) and the opposite ends (94*, 95*) define an axis that is parallel to the forward extending axis of the PCB (45).

However, Chun does not teach the light source having an underside base is adjacent to and confronting the front surface of the PCB.

Dubuc discloses in figure 10, plural solid state lighting sources (50) having underside bases adjacent and confront/perpendicular directly to the front surface of printed circuit board (60).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made utilize a directly mounting light sources on the one surface of PCB as taught by Dubuc in order to extend capable of mounting light source in variety manner for illumination or aesthetical purpose. Such implementation is considered as a routine skill in the art.

Regarding claim 52, Chun discloses substantially the claim invention as noted above except for a control circuitry is printed on the back surface of the printed circuit board and the illumination assembly is extended to retrofit with an incandescent light source.

Duduc fulfills the missing features in Chun by disclosing LED light source device (Figs. 10 and 14), in that, Duluc clearly suggests all of electronic components including a control circuitry for driving LED are printed on the back/reverse side of a printed circuit board for enhancing heat radiation while a plurality of LEDs mounted in a front/forward side of the printed circuit board (col. 4, lines 16-19). Dubuc also teaches not limit the operation of the LED light source system to a LED light source device, but extending the ability of adapting to any type of light source device such as an incandescent bulb (col. 4, lines 28-37).

It would have been obvious to one having ordinary skill in the art to utilize extensive teachings of Dubuc into the Chun lighting system in order to obtain a better light source system with higher reliable operation.

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3. Claim 60 and 61 are allowed.

4. The following is a statement of reasons for the indication of allowable subject matter: the prior fails to establish first and second electrically conductive bumps on the lengthwise ends of the printed circuit board for serving as an electrical input and output

when connected to a power source as required.

Correspondence

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyet Vo whose telephone number is 571 272 1830.

The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on 571 272 1662. The fax phone numbers for the organization where this application or proceeding is assigned are 571 273 8300 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571 272 2800.

Information regarding the status of an application or status information for publicing/unpublicing applications may be obtained from the Patent Application Information Retrieval (PAIR) system, see http://pair-direct.uspto.gov. Should you have questions on access to the PAIR system, contact the Electronic Business Center (EBC) at toll free 866-217-9197.

Tuyet Vo

Primary Examiner

April 30, 2007